CENTRAL FAX CENTER

APR 0 4 2007

Application No. 10/767675 Page 3

Amendment Attorney Docket No. S63.2B-10813-US01

Amendments To The Claims:

- 1. (Currently amended) A catheter comprising:
 - a catheter shaft having a proximal end and a distal end;
- an inflation balloon having a proximal waist portion, a proximal cone portion, a main body portion, a distal cone portion and a distal waist portion; and

a catheter tip having a proximal end, a distal end, a main shaft portion and a distal shaft portion, said catheter tip comprising a recessed portion, said catheter tip proximal end being coupled to said catheter shaft distal end, said balloon distal waist portion being attached to said catheter tip distal shaft portion; and said catheter tip main shaft portion being substantially coextensive with said balloon, the recessed portion oriented beneath the balloon distal cone portion.

- 2. (Currently amended) The catheter of claim 1, further comprising at least one marker oriented beneath the balloon main body portion.
- 3. (Original) The catheter of claim 2, wherein said marker is a radiopaque marker.
- 4. (Original) The catheter of claim 2, wherein said marker is an MRI marker.
- 5. (Original) The catheter of claim 1, wherein said catheter tip distal end comprises a radiused tip.
- 6. (Currently amended) The catheter of claim 1, wherein said catheter tip further comprises a second recessed portion, the second recessed portion oriented beneath the balloon proximal cone portion.
- 7. (Currently amended) The catheter of claim 1, wherein said catheter tip further comprises a hub portion oriented beneath the balloon main body portion.
- 8. (Original) The catheter of claim 7, wherein said catheter tip comprises a molded catheter tip and said hub portion is formed integrally with the catheter tip.
- 9. (Original) The catheter of claim 8, further comprising at least one marker.
- 10. (Original) The catheter of claim 9, wherein said radiopaque marker is insert molded.
- 11. (Original) The catheter of claim 10, wherein an outer surface of said radiopaque marker is flush with an outer surface of said catheter tip.
- 12. (Original) The catheter of claim 1, further comprising a stiffener.
- 13. (Original) The catheter of claim 12, wherein the stiffener is a spring.

CENTRAL FAX CENTER

APR N 4 2007

Application No. 10/767675 Page 4

Amendment Attorney Docket No. S63.2B-10813-US01

- 14. (Original) The catheter of claim 1, wherein said catheter tip further comprises a marker region.
- 15. (Original) The catheter of claim 1, wherein said catheter tip further comprises a first region and a second region, said first region having greater flexibility than said second region.
- 16. (Currently amended) A catheter comprising:

a catheter shaft having a proximal end and a distal end:

an inflation balloon having a proximal waist portion and a distal waist portion; and a catheter tip having a proximal end, a distal end, a main shaft portion and a distal shaft portion; said catheter tip comprising a first region and a second region, said first region having greater flexibility than said second region; said catheter tip proximal end being coupled to said catheter shaft distal end, said balloon distal waist portion being attached to said catheter tip distal shaft portion; said catheter tip main shaft portion being substantially coextensive with said balloon:

The catheter of claim 15, wherein said second region comprises entrained stiffening fibers selected from a group consisting of carbon fibers, polypropylene fibers and polyolefin fibers.

17. (Original) The catheter of claim 1, further comprising:

an outer catheter shaft:

wherein said balloon proximal waist portion is coupled to said outer catheter shaft.

- 18. (Original) The catheter of claim 1, wherein said catheter tip is coupled to said catheter shaft by heat bonding.
- 19. (Original) The catheter of claim 1, wherein said catheter tip is coupled to said catheter shaft by radio-frequency welding.
- 20. (Original) The catheter of claim 1, wherein said catheter tip is coupled to said catheter shaft with an adhesive.
- 21. (Original) The catheter of claim 1, wherein the catheter is a stent delivery catheter.
- 22. (Original) The catheter of claim 21, further comprising a stent mounted about the balloon.
- 23. (Original) The catheter of claim 22, wherein the stent is an inflation expandable stent.
- 24. (Original) The catheter of claim 22, wherein the stent is a self-expanding stent.
- 25. (Currently amended) A catheter comprising:
 - a catheter shaft having a proximal end and a distal end;

Application No. 10/767675
Page 5

Amendment Attorney Docket No. S63.2B-10813-US01

an inflation balloon having a proximal waist portion and a distal waist portion; and
a catheter tip having a proximal end, a distal end, a main shaft portion and a distal shaft
portion; said catheter tip proximal end being coupled to said catheter shaft distal end; said
balloon distal waist portion being attached to said catheter tip distal shaft portion; said catheter
tip main shaft portion being substantially coextensive with said balloon;

The catheter of claim 1, wherein said catheter tip includes a shaped portion oriented beneath said balloon, the cross-section of the shaped portion having a plurality of sides.

26. (Original) The catheter of claim 25, wherein the shaped portion is triangular.

27-57. (Cancelled)